



“OPEN ENDED LAB”

COURSE:

**SOFTWARE CONSTRUCTION AND
DEVELOPMENT LAB**

SUBMITTED TO:

SIR MUHAMMAD SHAHZAD

SUBMITTED BY:

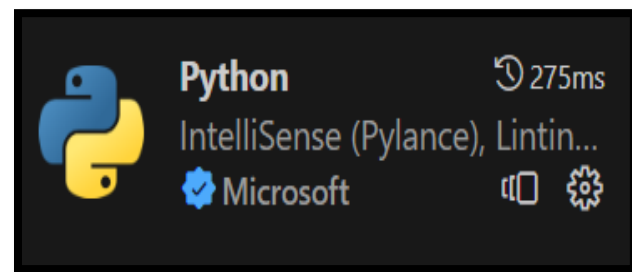
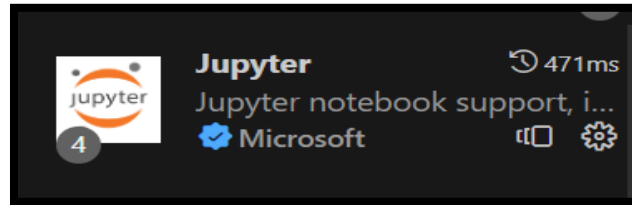
LAIBA SOHAIL (2021-BSE-016)

TANZEELA ASHAR (2021-BSE-032)

BISMA ALI (2021-BSE-008)

LIVE CRICKET SCORE TRACKER

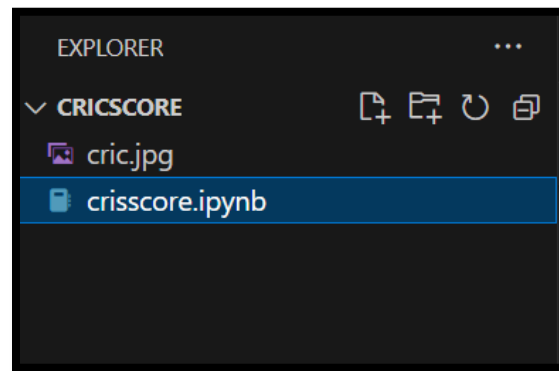
INSTALLATION OF EXTENSIONS:



INSTALLATION OF PYTHON:



MAKE A FOLDER AND INSERT FILES IN IT:



INSTALLATION OF COMMANDS ON TERMINAL:

- pip install Pillow
- pip install bs4
- pip install requests

```
PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS JUPYTER
PS C:\Users\PMLS\Desktop\CRICSCORE> pip install Pillow
Collecting Pillow
  Obtaining dependency information for Pillow from https://files.pythonhosted.org/packages/43/56/f92715a873187b5eff72a4a0d2ac6258e18e9bfb0e136aafde65c49a841a/pillow-10.2.0-cp311-cp311-win_amd64.whl.metadata
  Downloading pillow-10.2.0-cp311-cp311-win_amd64.whl.metadata (9.9 kB)
  Downloading pillow-10.2.0-cp311-cp311-win_amd64.whl (2.6 MB)
    1.4/2.6 MB 214.8 kB/s eta 0:00:06
```

```
a8p0\python.exe -m pip install --upgrade pip
PS C:\Users\PMLS\Desktop\CRICSCORE> pip install requests
Collecting requests
  Obtaining dependency information for requests from https://files.pythonhosted.org/packages/70/8e/0e2d847009bb167a1a26b2ce6cd6965bf26b47bc0bf44/requests-2.31.0-py3-none-any.whl.metadata
  Downloading requests-2.31.0-py3-none-any.whl.metadata (4.6 kB)
Collecting charset-normalizer<4,>=2 (from requests)
  Obtaining dependency information for charset-normalizer<4,>=2 from https://files.pythonhosted.org/packages/8ac8b1741d5b963797b7c0c869335619e13d4744ca2f67fc11c6fc/charset_normalizer-3.3.2-cp311-cp311-win_amd64.whl.metadata
  Downloading charset_normalizer-3.3.2-cp311-cp311-win_amd64.whl.metadata (34 kB)
Collecting idna<4,>=2.5 (from requests)
  Obtaining dependency information for idna<4,>=2.5 from https://files.pythonhosted.org/packages/c2/e7/a8268d59ae6a68bf5064484a0718ea5033660af4b54a9/idna-3.6-py3-none-any.whl.metadata
```

```
PS C:\Users\PMLS\Desktop\CRICSCORE> pip install bs4
Collecting bs4
  Downloading bs4-0.0.1.tar.gz (1.1 kB)
    Installing build dependencies ... done
    Getting requirements to build wheel ... done
    Preparing metadata (pyproject.toml) ... done
Collecting beautifulsoup4 (from bs4)
  Downloading beautifulsoup4-4.12.2-py3-none-any.whl (142 kB)
    ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 143.0/143.0 kB 160.3 kB/s eta 0:00:00
Collecting soupsieve>1.2 (from beautifulsoup4->bs4)
  Obtaining dependency information for soupsieve>1.2 from https://files.pythonhosted.org/
```

CODE:

```
from tkinter import *
from PIL import ImageTk
from tkinter.ttk import Combobox
from bs4 import BeautifulSoup
import requests
import re

[3] ✓ 0.0s
```

```
class CricketScore:
    # creating gui window
    def __init__(self, rootWindow):
        self.rootWindow = rootWindow
        self.rootWindow.title("LIVE CRICKET SCORE")
        self.rootWindow.geometry('800x500')
        self.bg = ImageTk.PhotoImage(file="cric.jpg")
        bg = Label(self.rootWindow, image=self.bg).place(x=0, y=0)

        # adding live matches text to gui
        self.label = Label(self.rootWindow, text='Live Matches', font=("times new roman", 60), compound='center').pack(padx=100, pady=50)

        # adding all live matches combobox in gui
        self.var = StringVar()
        self.matches = self.match_details()
        self.data = [i for i in self.matches.keys()]
        self.cb = Combobox(self.rootWindow, values=self.data, width=50)
        self.cb.place(x=250, y=200)
```

```

# adding check score button to gui
self.b1 = Button(self.rootWindow, text="Check Score", font=("times new roman", 15), command=self.show_match_details).place(x=50, y=380)

# creating command for check score button
def select(self):
    return self.cb.get()

# scrapping the data from cricbuzz.com
def scrap(self):
    URL = "https://www.cricbuzz.com/"
    page = requests.get(URL)
    soup = BeautifulSoup(page.content, "html.parser")
    results = soup.find(id="match_menu_container")
    scrap_results = results.find_all("li", class_="cb-match-card")
    return scrap_results

```

```

# Load the cricket match details
def match_details(self):
    details = self.scrap()
    live_match = {}
    for detail in details:
        live_team_details = {}
        summary = self.match_summary(detail)
        if summary is not None:
            match_header = self.match_header(detail).text
            teams = self.teams_name(detail)
            score_card = self.team_score(detail)
            live_team_details['summary'] = summary.text
            live_team_details['match_header'] = match_header
            live_team_details['score_card'] = score_card[0] + " :: " + score_card[1]
            live_match[teams[0] + " vs " + teams[1]] = live_team_details

    return live_match

```

```

# Load match summary
def match_summary(self, detail):
    return detail.find("div", class_="cb-mtch-crd-state")

# Load match header
def match_header(self, detail):
    return detail.find("div", class_="cb-mtch-crd-hdr")

# Load teams name
def teams_name(self, detail):
    l = []
    team1_details = detail.find("div", class_="cb-hmscg-bat-txt").text
    team1_index = re.search(r"\d", team1_details).start() if re.search(r"\d", team1_details) else len(team1_details)
    team2_details = detail.find("div", class_="cb-hmscg-bwl-txt").text
    team2_index = re.search(r"\d", team2_details).start() if re.search(r"\d", team2_details) else len(team2_details)
    l.append(team1_details[:team1_index])
    l.append(team2_details[:team2_index])
    return l

```

```

# Load team score
def team_score(self, detail):
    l = []
    team1_details = detail.find("div", class_="cb-hmscg-bat-txt").text
    team2_details = detail.find("div", class_="cb-hmscg-bwl-txt").text
    l.append(team1_details)
    l.append(team2_details)
    return l

# Present details in gui
def show_match_details(self):

    # Building match details frame
    self.frame1 = Frame(self.rootWindow, bg="#ADD8E6")
    self.frame1.place(x=180, y=280, width=600, height=200)

    # Fetching details of match
    x = self.matches[self.select()]

```

```

# Displaying team names
Label(self.frame1, text=self.select() + " - " + x['match_header'], font=("times new roman", 15, "bold"), bg="#ADD8E6", fg="red",
      bd=0).place(x=150, y=15)

# Displaying details of the match
Label(self.frame1, text="Score Details : ", font=("times new roman", 10, "bold"), bg="#ADD8E6", fg="black",
      bd=0).place(x=10, y=40)
Label(self.frame1, text=x['score_card'], font=("times new roman", 10, "bold"), bg="#ADD8E6", fg="black",
      bd=0).place(x=20, y=60)

Label(self.frame1, text="Summary : ", font=("times new roman", 10, "bold"), bg="#ADD8E6", fg="black",
      bd=0).place(x=10, y=100)
Label(self.frame1, text=x['summary'], font=("times new roman", 10, "bold"), bg="#ADD8E6", fg="black",
      bd=0).place(x=20, y=120)

```

```

def main():
    rootWindow = Tk()

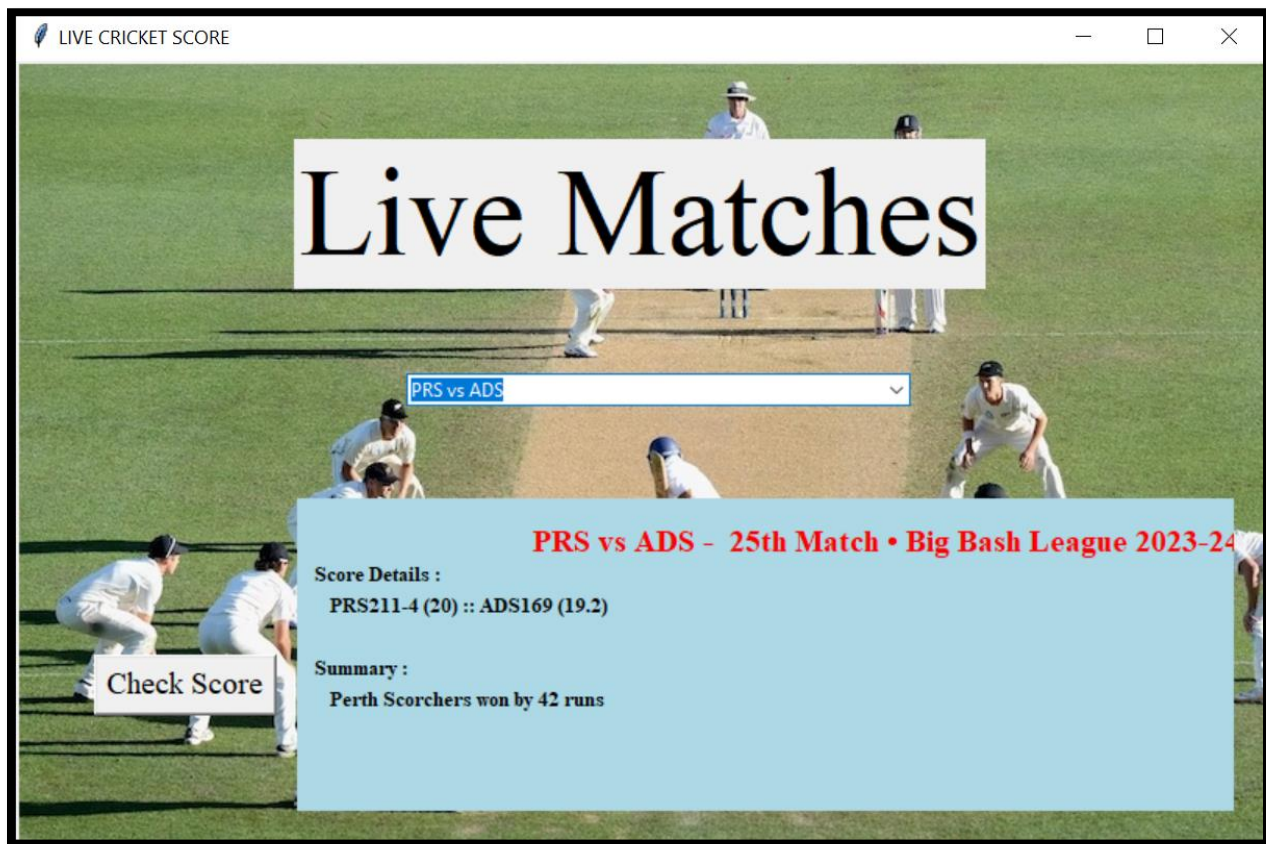
    # creating object for class cricket_score
    obj = CricketScore(rootWindow)

    # starting the gui
    rootWindow.mainloop()

if __name__ == "__main__":
    # ==== calling main function
    main()

```

OUTPUT:



Live Matches

AFG vs UAE

AFG vs UAE - 3rd T20I • Afghanistan tour of United

Score Details :

AFG128-6 (18.3) :: UAE126-9 (20)

Summary :

Afghanistan won by 4 wkts

Check Score